

WHAT IS CLAIMED IS:

1. A developing cartridge detachably mountable to a main assembly of an electrophotographic image forming apparatus, said apparatus comprising:

5 a frame;

developing means for developing an electrostatic latent image formed on an electrophotographic photosensitive member;

10 a first projected portion, projected from said frame, for engagement with a first positioning portion provided in the main assembly of the apparatus when said developing cartridge is mounted to the main assembly of the apparatus to position said developing cartridge;

15 a second projected portion, projected from said frame, for engagement with a second positioning portion provided in the main assembly of the apparatus when said developing cartridge is mounted to the main assembly of the apparatus to regulate rotation of said
20 developing cartridge about said first positioning portion; and

a cartridge guide member, projected from said frame, for contact to a main assembly guide portion provided in the main assembly of the apparatus to
25 guide said developing cartridge when said developing cartridge is mounted to the main assembly of the apparatus, wherein said second projected portion is

urged in a direction of contacting to said second positioning portion when said developing cartridge is set in the main assembly of the apparatus.

5 2. A developing cartridge according to Claim 1,
wherein said cartridge guide member has a portion to be urged which is urged by an urging member provided in the main assembly of the apparatus in a direction of contacting said second projected portion to said
10 second positioning portion.

 3. A developing cartridge according to Claim 1,
wherein said cartridge guide member is disposed downstream of said first projected portion with
15 respect to a mounting direction of mounting said developing cartridge to the main assembly of the apparatus.

 4. A developing cartridge according to Claim 2
20 or 3, wherein said cartridge guide member is in the form of a projection extended in the developing cartridge mounting direction.

 5. A developing cartridge according to Claim 4,
25 wherein said first projected portion has a circular cross-section having a diameter which is larger than a width of said cartridge guide member.

6. A developing cartridge according to Claim 1,
wherein said second projected portion is disposed at a
position away from said cartridge guide member with
respect to a mounting direction of mounting said
5 developing cartridge to the main assembly of the
apparatus.

7. A developing cartridge according to Claim 1
or 2, wherein said developing cartridge is detachably
10 mountable on a rotary member which is rotatably
supported in the main assembly of the apparatus and
which is capable of taking a developing position where
said developing means in position is capable of
developing an electrostatic latent image formed on the
15 electrophotographic photosensitive member and a
retracted position where said developing cartridge is
retracted from said development position.

8. A developing cartridge according to Claim 7,
20 wherein said developing cartridge includes a driving
input gear for meshing engagement with a main assembly
driving gear provided in the main assembly of the
apparatus when said developing cartridge is moved to
the development position.

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9. A developing cartridge according to Claim 8,
wherein said driving input gear is disposed at a

position where it receives a force from the main
assembly driving gear in a direction of contacting
said second projected portion to said second
positioning portion when a driving force is
5 transmitted from the main assembly driving gear.

10. A developing cartridge according to Claim 8
or 9, wherein said second projected portion is movable
relative to said second positioning portion when said
10 developing cartridge is moved from the retracted
position to the development position and said main
assembly driving gear and said driving input gear are
engaged with each other.

15 11. A developing cartridge according to Claim 1,
wherein said developing cartridge includes a locking
member provided for movement in a longitudinal
direction thereof, said locking member is engageable
with a hole provided in the main assembly of the
20 apparatus and is effective to prevent said developing
cartridge from disengaging from the main assembly of
the apparatus when said rotary member rotates.

12. A developing cartridge according to Claim 7,
25 wherein a portion to be urged in a direction of
rotating said developing cartridge about said first
projected portion in a direction opposite to a

direction of rotation of said rotary member.

13. A developing cartridge according to Claim 1,
wherein said first projected portion is projected from
5 each of longitudinal ends of said frame, and said
second projected portion is projected from each of
longitudinal end of said frame.

14. A process cartridge detachably mountable to a
10 main assembly of an electrophotographic image forming
apparatus, said process cartridge comprising:

a frame;

an electrophotographic photosensitive member;

developing means for developing an
15 electrostatic latent image formed on said
electrophotographic photosensitive member;

a first projected portion, projected from
said frame, for engagement with a first positioning
portion provided in the main assembly of the apparatus
20 when said process cartridge is mounted to the main
assembly of the apparatus to position said developing
cartridge;

a second projected portion, projected from
said frame, for engagement with a second positioning
25 portion provided in the main assembly of the apparatus
when said process cartridge is mounted to the main
assembly of the apparatus to regulate rotation of said

process cartridge about said first positioning
portion; and

5 a cartridge guide member, projected from said
frame, for contact to a main assembly guide portion
provided in the main assembly of the apparatus to
guide said process cartridge when said process
cartridge is mounted to the main assembly of the
apparatus, wherein said second projected portion is
urged in a direction of contacting to said second
10 positioning portion when said process cartridge is set
in the main assembly of the apparatus.

15 15. An electrophotographic image forming
apparatus for forming an image, recording material,
comprising:

(i) a main assembly guide portion;
(ii) a first positioning portion;
(iii) a second positioning portion;
(iv) mounting means for detachably mounting a
20 developing cartridge which includes a frame;
developing means for developing an electrostatic
latent image formed on an electrophotographic
photosensitive member; a first projected portion,
projected from said frame, for engagement with a first
25 positioning portion provided in the main assembly of
the apparatus when said developing cartridge is
mounted to the main assembly of the apparatus to

position said developing cartridge; a second projected
portion, projected from said frame, for engagement
with a second positioning portion provided in the main
assembly of the apparatus when said developing
5 cartridge is mounted to the main assembly of the
apparatus to regulate rotation of said developing
cartridge about said first positioning portion; and a
cartridge guide member, projected from said frame, for
contact to a main assembly guide portion provided in
10 the main assembly of the apparatus to guide said
developing cartridge when said developing cartridge is
mounted to the main assembly of the apparatus, wherein
said second projected portion is urged in a direction
of contacting to said second positioning portion when
15 said developing cartridge is set in the main assembly
of the apparatus; and

(v) feeding means for feeding the recording
material.

20 16. An apparatus according to Claim 15, further
comprising an urging member for urging a portion to be
urged provided in said cartridge guide member in a
direction of contacting said second projected portion
to said second positioning portion.

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17. An apparatus according to Claim 16, wherein
said urging member is disposed downstream of said

first positioning portion with respect to a mounting direction in which said developing cartridge is mounted to the main assembly of the apparatus.

5 18. An apparatus according to Claim 15, further comprising a rotary member which is rotatably supported in the main assembly of the apparatus and which is capable of taking a developing position where said developing means in position is capable of
10 developing an electrostatic latent image formed on the electrophotographic photosensitive member and a retracted position where said developing cartridge is retracted from said development position.

15 19. An apparatus according to Claim 18, further comprising a main assembly driving gear for engagement with a driving input gear provided in said developing cartridge when said developing cartridge is moved to said development position, said main assembly driving
20 gear being provided at a position for urging said driving input gear in a direction of contacting said second projected portion to said second positioning portion when a driving force is transmitted to said driving input gear.

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 20. An apparatus according to Claim 19, wherein said second projected portion is movable relative to

said second positioning portion when said developing
cartridge is moved from the retracted position to the
development position and said main assembly driving
gear and said driving input gear are engaged with each
5 other.

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